

 AIR RESOURCES BOARD	CNH UK Limited	EXECUTIVE ORDER U-R-008-0032 New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2003	3NHXL06.7DCR	3.9, 4.5, 5.9, 6.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler and Engine Control Module			Loader, Tractor Dozer and Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

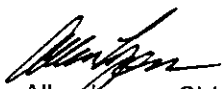
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
75 ≤ KW < 130	Tier 2	STD	N/A	N/A	6.6	5.0	0.30	20	15	50
130 ≤ KW < 225	Tier 2	STD	N/A	N/A	6.6	3.5	0.20	20	15	50
		CERT	--	--	5.0	1.2	0.11	12	3	27

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 30TH day of January 2003.


 Allen Lyons, Chief
 Mobile Source Operations Division

ATTACHMENT B 1 of 1 Engine Model Summary Form

U-R-008-0032

Manufacturer: CNH UK LTD
 Engine category: Nonroad CI
 EPA Engine Family: 3NHL06.7DCR
 Mfr Family Name: F4AE0684
 Process Code: New Submission

1. Engine Code	2. Engine Model	3. BHP @ RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HP (for diesel only)	5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm/stroke @ peak torque	8. Fuel Rate: (lbs/hr) @ peak torque	9. Emission Control Device Per SAE J1930
N/A	F4AE0684A*D	274 @ 2500	128	N/A	693 @ 1250	139	N/A	DOT, EM, EC, TC, PAC
N/A	F4AE0684F*D	208 @ 2175	105	N/A	634 @ 1500	125	N/A	EM, EC.
N/A	F4AE0684C*D	227 @ 2300	109	N/A	597 @ 1250	111	N/A	EM, EC.
N/A	F4AE0684E*D	215 @ 2000	111	N/A	671 @ 1400	124	N/A	EM, EC.
N/A	F4AE0684H*D	194 @ 2000	99	N/A	627 @ 1400	116	N/A	EM, EC.
N/A	F4AE0484B*D	143 @ 2300	97	N/A	361 @ 1200	105	N/A	EM, EC.
N/A	F4AE0684J*D	180 @ 2000	86	N/A	590 @ 1400	114	N/A	EM, EC.
N/A	F4AE0684N*D	180 @ 2300	85	N/A	516 @ 1400	103	N/A	EM, EC.
N/A	F4DE0684P*D	236 @ 2700	99	N/A	597 @ 1250	110	N/A	EM, EC.
N/A	F4DE0684A*D	160 @ 2200	76	N/A	482 @ 1600	90	N/A	EM, EC.
N/A	F4DE0684B*D	145 @ 2200	69	N/A	447 @ 1600	84	N/A	EM, EC.
N/A	F4AE0684R*D	221 @ 2175	116	N/A	671 @ 1500	130	N/A	EM, EC.
N/A	F4AE0484C*D	148 @ 2700	92	N/A	361 @ 1200	105	N/A	EM, EC.
N/A	F4DE0484A*D	135 @ 2200	97	N/A	411 @ 1600	116	N/A	EM, EC.
N/A	F4AE0684L*D	137 @ 2100	92	N/A	590 @ 1400	105	N/A	EM, EC.
N/A	F4AE0684K*D	198 @ 2100	102	N/A	627 @ 1400	118	N/A	EM, EC.
N/A	F4HE0684J*D	194 @ 2000	109	N/A	627 @ 1400	126	N/A	EM, EC.
N/A	F4AE0684B*D	236 @ 2200	116	N/A	679 @ 1400	133	N/A	EM, EC.
N/A	F4AE0684G*D	201 @ 2200	99	N/A	634 @ 1400	125	N/A	EM, EC.